Gpio Driver

FPT Software

**1. Software Block Diagram
2. Driver
2.1. Gpio Driver**

1. Software Block Diagram

Application layer

Driver layer

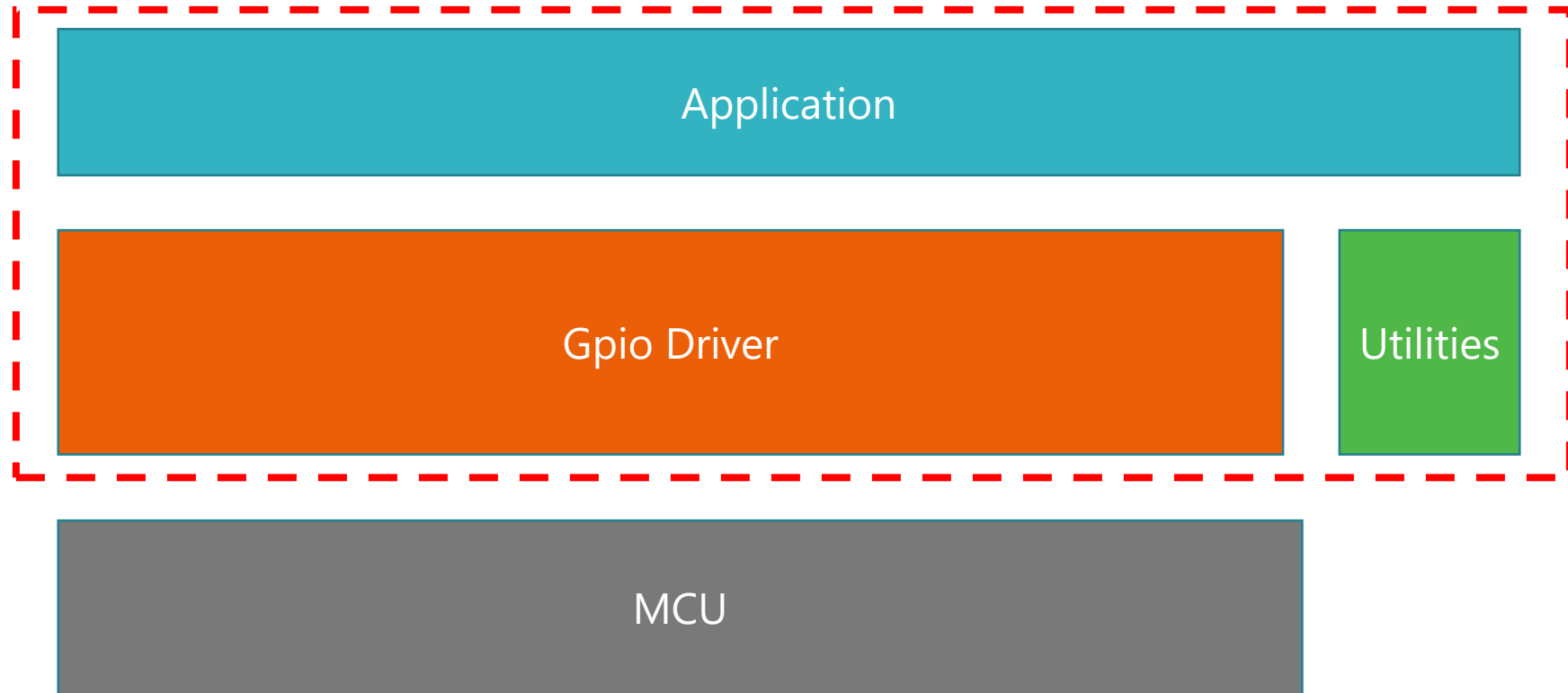| Clock Driver | Port Driver | Gpio Driver | Utilities |

MCU
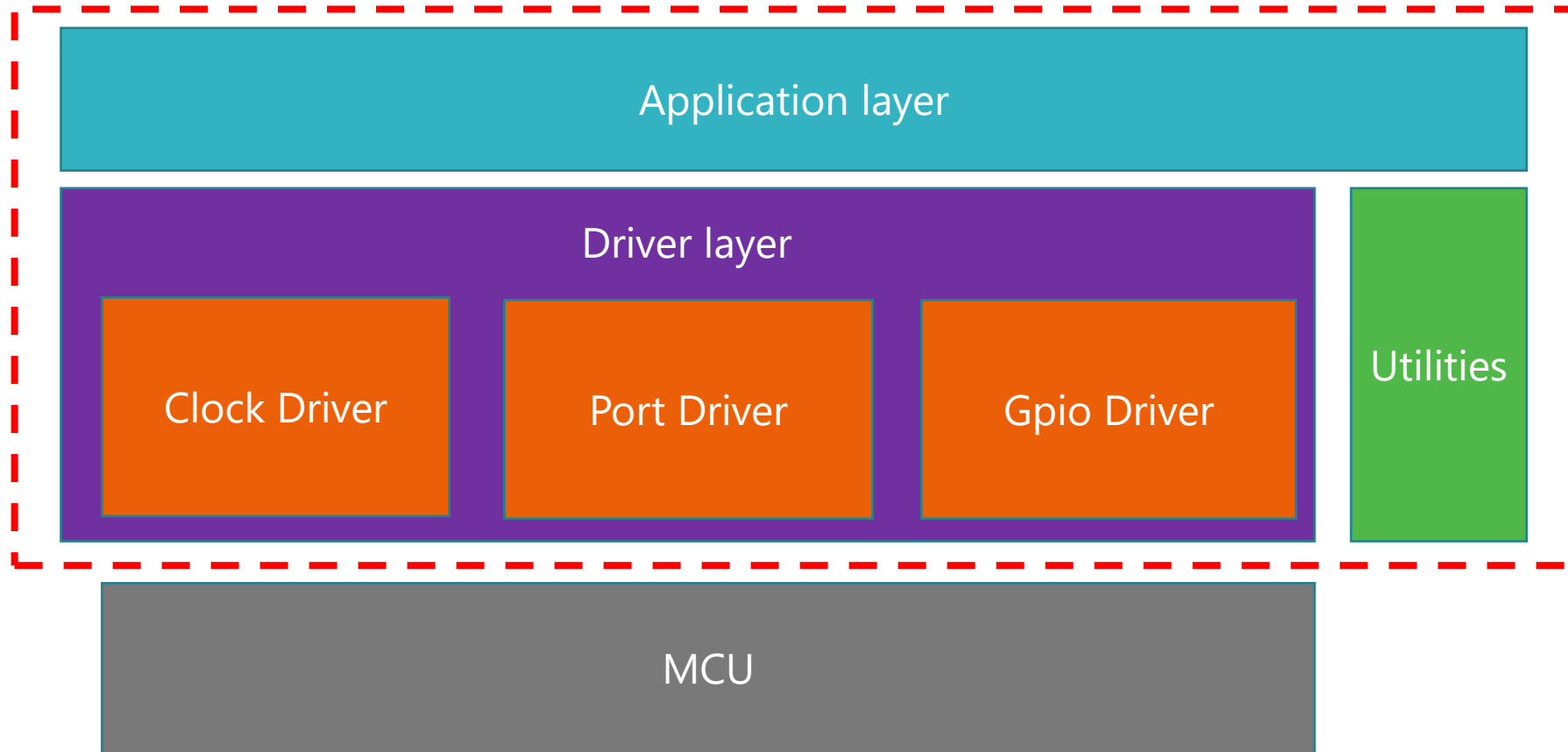
Driver

A driver is **is a software component that is driven directly to the hardware.**
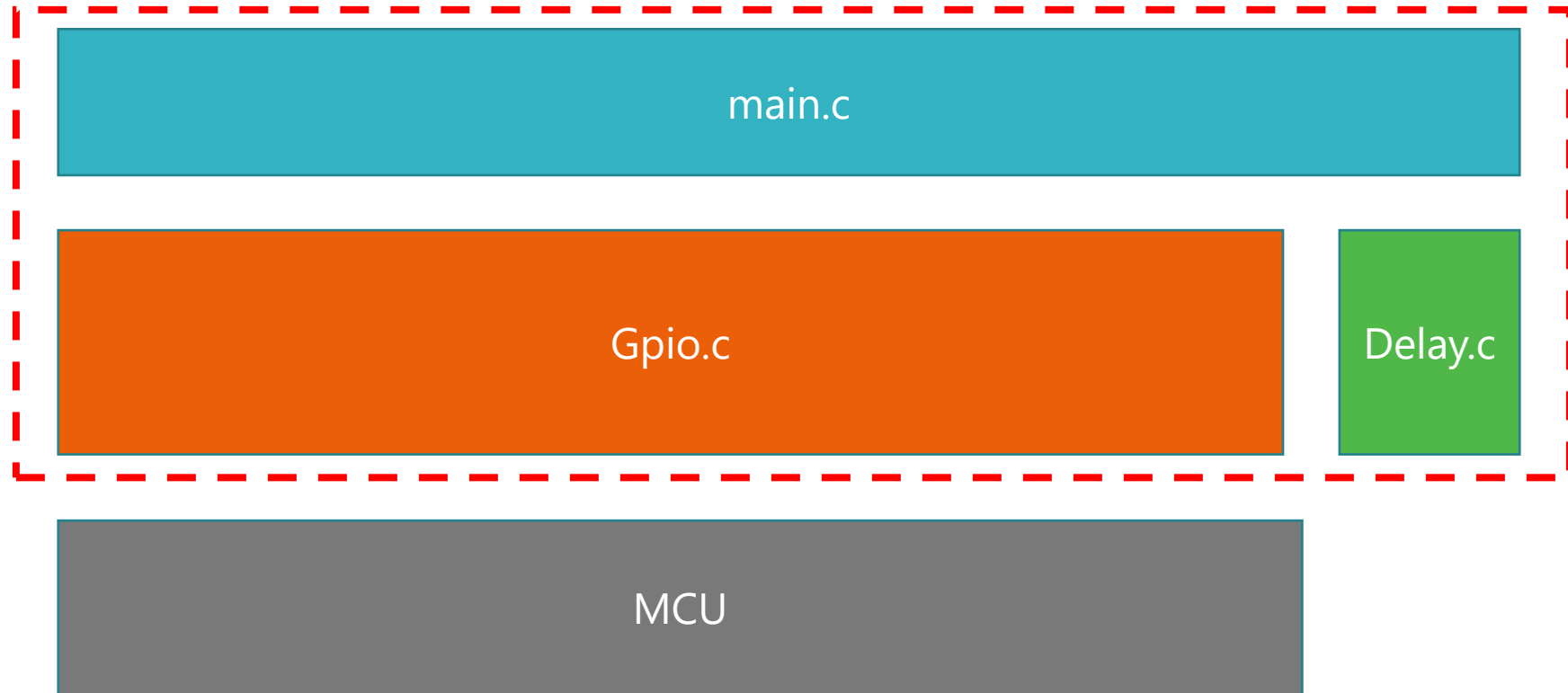
Hardware S32K144

2.1. Gpio Driver

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Source File – API- Application programming interface

Gpio API:

void **Gpio_Init**(const Gpio_ConfigType* ConfigPtr);

void **Gpio_WriteToOutputPin**(Gpio_Type *pGPIOx,
                                              unsigned char PinNumber, unsigned char value);

void **Gpio_SetOutputPin**(Gpio_Type *pGPIOx,
                                        unsigned char PinNumber);

void **Gpio_ResetOutputPin**(Gpio_Type *pGPIOx,
                                          unsigned char PinNumber);

void **Gpio_ToggleOutputPin**(Gpio_Type *pGPIOx,
                                            unsigned char PinNumber);

unsigned char **Gpio_ReadFromInputPin**(Gpio_Type *pGPIOx,
                                                    unsigned char PinNumber);

Gpio_Registers.h

Include

Gpio.h

Include

Gpio.c

Thank you